

ABSTRACT:

A design of a flexible communication device capable of reducing time and labor required for changing a communication protocol and positively eliminating an erroneous operation, and interface devices for the communication device. A communication device (1) receives from a control device (2) control information corresponding to address spaces of the control device (2) for loading into a memory (7) sequentially. A command acquisition unit (8) sequentially reads control information stored in the memory (7), and sends them to individual detection units (9-1 to 9-m) via a back-end bus (12). Each detection unit detects whether or not the control information match each communication protocol module corresponding to each detection unit and sends matching control information, if any, to an own communication protocol module for communication protocol processing. A communication protocol management unit (11) manages and processes, via a bus (13), data moving through connection media between communication network interfaces (6-1 to 6-n) and respectively corresponding communication terminals (3-1 to 3-n) .

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